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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	· · · · · · · · · · · · · · · · · · ·	Sae Notificati	on of Transmittal of International				
- ·	FOR FURTHER ACTION See Notifical Preliminary		Examination Report (Form PCT/IPBA/416)				
OT-5177 International application No.	International filing date (day/mon	th/year)	Priority date (day/month/year)				
PCT/US03/19944 International Patent Classification (IPC)	23 June 2003 (23.06.2003) or national classification and IPC						
IPC(7): B66B 1/16, 1/18 and US CI.: 187 Applicant	IPC(7): B66B 1/16, 1/18 and US Cl.: 187/ 380,386,387						
	Applicant						
OTIS ELEVATOR COMPANY							
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of	2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 2 sheets.							
	· 1	<u> </u>					
3. This report contains indic	ations relating to the following	items:					
I Basis of the rep	I Basis of the report						
II Priority							
III Non-establishm	nent of report with regard to not	velty, inventive	e step and industrial applicability				
IV Lack of unity of	of invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain docum	ents cited						
VII Certain defects	VII Certain defects in the international application						
VIII Certain observations on the international application							
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			- CAL-				
Date of submission of the demand	Dat	e or completion	n of this report				
11 June 2004 (11.06.2004)		20 July 2005 (20.07.2005)					
Name and mailing address of the IPRA/US		Authorized officer					
Mail Stop PCT, Attn: IPBA/ US Commissioner for Patents	Jon	Jonathan Salata					
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 703-308-0956					
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July		ордоно 140. 703	300 0300				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	_
PCT/US03/19944	

I.	Basis	of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-6 as originally filed
		pages NONE, filed with the demand, filed with the letter of
	\square	
		the claims: pages NONE , as originally filed
		pages 7 and 8, as amended (together with any statement) under Article 19
		pages NONE, filed with the demand
		pages NONE, filed with the letter of.
	\boxtimes	the drawings.
		pages 1-2 , as originally filed pages NONE , filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
		pages NONE, as originally filed
		pages NONE , filed with the demand
2	VX/i+1	pages NONE, filed with the letter of regard to the language, all the elements marked above were available or furnished to this Authority in the
2.		uage in which the international application was filed, unless otherwise indicated under this item.
		se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	Ш	the language of publication of the international application (under Rule 48.3(b)).
	Ш	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.		regard to any nucleotide and/or amino acid sequence disclosed in the international application, the mational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	_	international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4	. 🛛	The amendments have resulted in the cancellation of:
		the description, pages None
		the claims, Nos. 1
1		the drawings, sheets/fig None
5	. \square	This report has been established as if (some of) the amendments had not been made, since they have been considered to go
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
t t	iis repo	scement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US03/19944

V. Reasoned statement under Rule 66.2(a)(ii citations and explanations supporting suc) with regard to novelty, inventive step or th statement	industrial applicability;
1. STATEMENT		
Novelty (N)	Claims 2-4	YES
	Claims None	NO
Inventive Step (IS)	Claims 2-4	YES
	Claims None	NO
Industrial Applicability (IA)	Claims 2-4	YES
	Claims NONE	NO
2. CITATIONS AND EXPLANATIONS Claims 2-4 meet the criteria set out in PCT Article 33 the estimate of elapse time, travel time, perceived tra hall call. Claims 2-4 meet the criteria set out in PCT Article 33 be made or used in industry.	vel time and service time for the determination of 3(4), and thus meet industrial applicability because.	f each car available in a particular se the subject matter claimed can

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Claims

1. Cancelled

- 2. A method of assigning selected ones of a plurality of elevator cars to answer hall calls outstanding in a multifloor building, characterized by:
 - (a) for each car available to serve a particular hall call outstanding in a building -
- (b) determining (45) an estimate of the time that will elapse after being registered before each said call will be answered;
- (c) providing (46) a perceived wait time as a first constant times a first non-linear function of each said wait time;
- (d) determining (47) an estimate of the travel time that will elapse after said each call is answered before reaching an estimated destination of a passenger registering said each call;
- (e) providing (51) a perceived travel time as a second constant times a second non-linear function of each said travel time; and
- (f) providing (52) said perceived service time as a summation of said perceived wait time and said perceived travel time for each said wait time and corresponding travel time; and
- (g) allocating (59-61) cars to respond to hall calls based on said perceived service times.

3. A method according to claim 2 wherein:

said second constant and said second non-linear function are selected along with said first constant and said first non-linear function so that a hall call having a relatively long wait time for a particular car will have a relatively short travel time to reach an estimated duration in said particular car.

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- 4. A method of assigning selected ones of a plurality of elevator cars to answer up hall calls and down hall calls outstanding in a multifloor building, characterized by:
- (a) for each car available to serve a particular hall call outstanding in a building, providing (52) a perceived service time having components (45, 46) based on the estimated time for a selected car to answer said hall call and having components (47, 51) based on the estimated time for said selected car to reach an estimated destination corresponding to said hall call;
 - (b) providing the square (53) of each said perceived service time;
- (c) for all possible sets of assignments of all said up hall calls and down hall calls outstanding in said building, providing (59) a summation of said squares; and

assigning cars to calls (60) in accordance with the one of said sets having the lowest of said summations (61).